

Patent Abstracts of Japan

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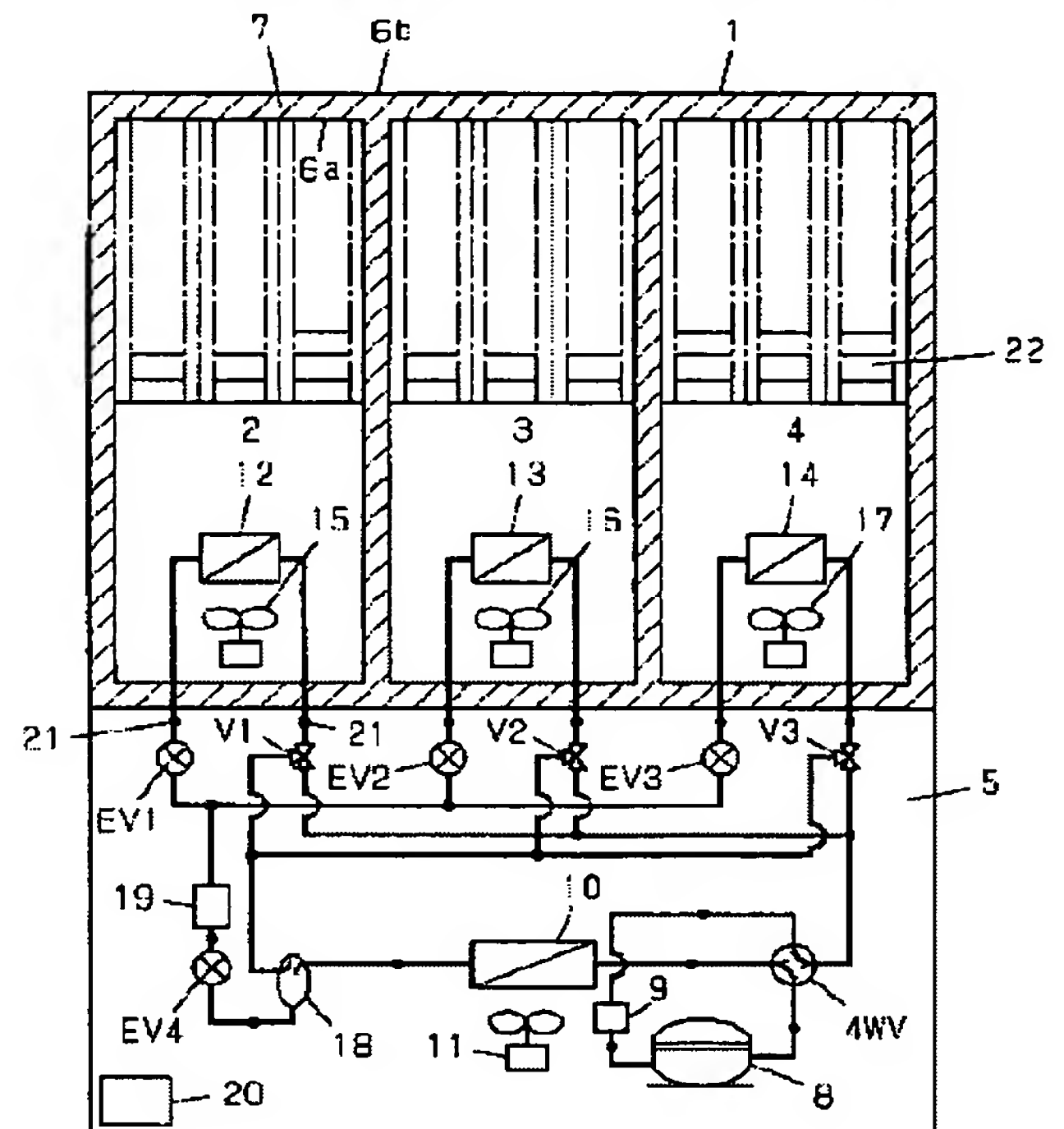
APPLICANT : MATSUSHITA REFRIG CO LTD;

INVENTOR : KAMEI MASAHARU;

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TITLE : COOLING/HEATING STORAGE AND
VENDING MACHINE USING THE SAME

1	自動販売機の本体	20	冷却加熱制御部
2, 3, 4	収納庫	21	溶接部
5	機械室	22	商品
8	圧縮機	4WV	四方弁
10	庫外熱交換器	V1, V2, V3	三方弁
12, 13, 14	庫内熱交換器	EV1, EV2, EV3	庫内側電動膨張弁
18	気液分離器	EV4	庫外側電動膨張弁



ABSTRACT : PROBLEM TO BE SOLVED: To perform cooling and heating in safety, with respect to a cooling/ heating storage using a combustible refrigerant as a refrigerant of a freezing cycle, and a vending machine using the storage.

SOLUTION: As a plurality of storages 2-4 of the vending machine are heated only by condensing action of heat pump-type in-storage heat exchangers 12-14, the energy can be saved in comparison with a case when the heating is performed by a heater, and the heater becomes unnecessary, so that the possibility of catching fire by the combustible refrigerant can be lowered even when the combustible refrigerant is leaked from the in-storage heat exchangers 12-14 by mistake.

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